PATENT ABSTRACTS OF JAPAN

(54) **IMPULSIVE SOUND DISCRIMINATION DEVICE**

(57) Abstract:

PURPOSE: To relax the observation conditions of an input sound and to discriminate the impulsive sound with high accuracy by providing a learning function which knows the category of an input pattern and updates a dictionary pattern.

CONSTITUTION: The device is provided with an acoustic input part 1, a feature extraction part 2, a segment processing part 3, a recognition processing part 4, a learning pattern memory part 8, and a learning process part 9. Then when a recognition result obtained the recognition processing part 4 is received and a previously known result, a pattern stored in the learning pattern memory part 8 is read out to update a characteristic core. After the characteristic core is updated, a characteristic vector is calculated and the contents of a standard pattern memory part 5 are updated into a new dictionary. Thus, the learning function which knows the category of the input pattern and updates the standard pattern is provided. Consequently, the observation conditions of the input sound are relaxed and the impulsive sound can be identified with high accuracy.